

*Sai*  
MAY 11 1976

U.I.C.C.  
MAY 11 1976

LIBRARY

QL  
671  
I12

LIBRARY

# THE IBIS

JOURNAL OF THE BRITISH  
ORNITHOLOGISTS' UNION



VOLUME 117, 1975

# VOLUME 117

## DATES OF ISSUE

No. 1. 30 January 1975.  
No. 2. 23 April 1975.

No. 3. 7 August 1975.  
No. 4. 23 October 1975.

## CONTENTS

	Page
Contents . . . . .	ii
B.O.U. Officers and Medallists . . . . .	viii
Members elected during 1975 . . . . .	xii
No. 1	
P. MARLER & P. C. MUNDINGER. Vocalizations, social organizations and breeding biology of the Twite <i>Acanthus flavirostris</i> . . . . .	1
G. A. SMITH. Systematics of parrots . . . . .	18
D. E. POMEROY. Birds as scavengers of refuse in Uganda . . . . .	69
HENRY A. HESPENHEIDE. Selective predation by two swifts and a swallow in Central America . . . . .	82
Short communications	
S.-A. BENGTON. Timing of the moult of the Purple Sandpiper <i>Calidris maritima</i> in Spitsbergen . . . . .	100
W. ROY SIEGFRIED & PETER G. H. FROST. Continuous breeding and associated behaviour in the Moorhen <i>Gallinula chloropus</i> . . . . .	102
MIKHAEL TARAN. Early records of the domestic fowl in ancient Judea . . . . .	109
H. MENDELSSOHN, Y. YOM-TOV & U. SAFRIEL. Hume's Tawny Owl <i>Strix butleri</i> in the Judean, Negev and Sinai deserts . . . . .	110
STORRS L. OLSON. Remarks on the generic characters of <i>Bulweria</i> . . . . .	111
Correspondence	
M. W. PIENKOWSKI & P. J. KNIGHT. Wing-moult of Oystercatchers in Iceland . . . . .	114
Obituaries	
MATTHEW FONTAINE MAURY MEIKLEJOHN . . . . .	115
CYRIL WINTHROP MACKWORTH-PRAED . . . . .	116
Recent ornithological publications . . . . .	118
Current notes and notices . . . . .	139

## No. 2

	Page
J. H. BECKING. The ultrastructure of the avian eggshell . . . . .	143
MARTYN L. GORMAN. Habitats of the land-birds of Viti Levu, Fiji Islands . . . . .	152
C. J. O. HARRISON & C. A. WALKER. A new swift from the Lower Eocene of Britain	162
C. J. O. HARRISON. Ordinal affinities of the Aegialornithidae . . . . .	164
FRED N. WHITE, GEORGE A. BARTHolemew & THOMAS R. HOWELL. The thermal significance of the nest of the Sociable Weaver <i>Philetairus socius</i> : winter observations . . . . .	171
D. M. BRYANT. Breeding biology of House Martins <i>Delichon urbica</i> in relation to aerial insect abundance . . . . .	180
MILTON W. WELLER. Ecology and behaviour of the South Georgia Pintail <i>Anas g. georgica</i> . . . . .	217

## Short communications

G. F. BENNETT, C. J. MEAD & S. F. BARNETT. Blood parasites of birds handled for ringing in England and Wales . . . . .	232
ANDREW F. HODGES. The orientation of adult Kittiwakes <i>Rissa tridactyla</i> at the nest site in Northumberland . . . . .	235
EDWARD H. BURTT, JR. Cliff-facing interaction between parent and chick Kittiwakes <i>Rissa tridactyla</i> in Newfoundland . . . . .	241

## Correspondence

JERRAM L. BROWN. Helpers among Arabian Babblers <i>Turdoides squamiceps</i> . . . . .	243
JAMES BOND. Origin of the Puerto Rican Screech Owl <i>Otus nudipes</i> . . . . .	244
Recent ornithological publications . . . . .	245
British Ornithologists' Union . . . . .	271
Current notes and notices . . . . .	272

## No. 3

J. H. BECKING. New evidence of the specific affinity of <i>Cuculus lepidus</i> Müller . . . . .	275
A. A. KISTCHINSKI. Breeding biology and behaviour of the Grey Phalarope <i>Phalaropus fulicarius</i> in east Siberia . . . . .	285
A. W. DIAMOND. Biology and behaviour of frigatebirds <i>Fregata</i> spp. on Aldabra atoll . . . . .	302
E. B. SPURR. Breeding of the Adélie Penguin <i>Pygoscelis adeliae</i> at Cape Bird . . . . .	324

	Page	
R. G. B. BROWN, FRED COOKE, P. K. KINNEAR & ERIC L. MILLS. Summer seabird distributions in Drake Passage, the Chilean fjords and off southern South America . . . . .	339	
JEREMY J. HATCH. Piracy by Laughing Gulls <i>Larus atricilla</i> : an example of the selfish group . . . . .	357	
<b>Short communications</b>		
D. R. WELLS & J. H. BECKING. Vocalizations and status of Little and Himalayan Cuckoos, <i>Cuculus poliocephalus</i> and <i>C. saturatus</i> , in Southeast Asia . . . . .	366	
M. G. WHITE & J. W. H. CONROY. Aspects of competition between pygoscelid penguins at Signy Island, South Orkney Islands . . . . .	371	
I. C. T. NISBET & M. E. COHEN. Asynchronous hatching in Common and Roseate Terns, <i>Sterna hirundo</i> and <i>S. dougallii</i> . . . . .	374	
DOUGLASS H. MORSE. Erratic flights of Goldcrests <i>Regulus regulus</i> and Treecreepers <i>Certhia familiaris</i> . . . . .	379	
STEVEN L. HILTY. Year-round attendance of White-whiskered and Little Hermits, <i>Phaethornis</i> spp., at singing assemblies in Colombia . . . . .	382	
EDWARD K. BARTH. Moult and taxonomy of the Herring Gull <i>Larus argentatus</i> and the Lesser Black-backed Gull <i>L. fuscus</i> in northwestern Europe . . . . .	384	
<b>Correspondence</b>		
CHRISTOPHER J. FEARE. Scavenging and kleptoparasitism as feeding methods of Seychelles Cattle Egrets <i>Bubulcus ibis</i> . . . . .	388	
<b>Obituaries</b>		
GÜNTHER NIETHAMMER . . . . .	389	
F. O. CAVE . . . . .	390	
<b>Recent ornithological publications</b> . . . . .		391
British Ornithologists' Union . . . . .	414	
<b>Current notes and notices</b> . . . . .		431
 No. 4		
W. L. N. TICKELL & R. PINDER. Breeding biology of the Black-browed Albatross <i>Diomedea melanophris</i> and Grey-headed Albatross <i>D. chrysostoma</i> at Bird Island, South Georgia . . . . .	433	
DENNIS L. C. PROCTER. The problem of chick loss in the South Polar Skua <i>Catharacta maccormicki</i> . . . . .	452	
J. W. F. DAVIS. Age, egg-size and breeding success in the Herring Gull <i>Larus argentatus</i> . . . . .	460	
D. C. HOUSTON. The moult of the White-backed and Rüppell's Griffon Vultures <i>Gyps africanus</i> and <i>G. rueppellii</i> . . . . .	474	

## CONTENTS

v

	Page
THOMAS ALERSTAM. Crane <i>Grus grus</i> migration over sea and land . . . . .	489
VAL NOLAN JR & CHARLES F. THOMPSON. The occurrence and significance of anomalous reproductive activities in two North American non-parasitic cuckoos <i>Coccyzus</i> spp. . . . .	496

## Short communications

P. J. MUNDY & A. W. COOK. Observations of the Yellow-billed Oxpecker <i>Buphagus africanus</i> in northern Nigeria . . . . .	504
D. J. PEARSON. The timing of complete moult in the Great Reed Warbler <i>Acrocephalus arundinaceus</i> . . . . .	506
RICHARD D. PORTER. Experimental alterations of clutch-size of captive American Kestrels <i>Falco sparverius</i> . . . . .	510
D. F. OWEN. The efficiency of Blue Tits <i>Parus caeruleus</i> preying on larvae of <i>Phytomyza ilicis</i> . . . . .	515
JASPER PARSONS. Asynchronous hatching and chick mortality in the Herring Gull <i>Larus argentatus</i> . . . . .	517
RICHARD BREWER & KEITH G. HARRISON. The time of habitat selection by birds . . . . .	521
RAYMOND J. O'CONNOR. An adaptation for early growth in tits, <i>Parus</i> spp. . . . .	523
WILLIAM Y. BROWN. Incubation shifts of Sooty Terns <i>Sterna fuscata</i> on Manana Island, Hawaii . . . . .	527
J. R. FURSE & G. BRUCE. Birds of the Elephant Island group . . . . .	529
ROBERT E. RICKLEFS. The evolution of co-operative breeding in birds. . . . .	531

## Correspondence

W. R. P. BOURNE. The lachrymal bone in the genus <i>Bulweria</i> . . . . .	535
--	-----

## Obituaries

Sir JULIAN SORELL HUXLEY . . . . .	536
Dr HENRI SCHOUTEDEN . . . . .	538

## Recent ornithological publications . . . . .

## Current notes and notices . . . . .

## LIST OF PLATES

Plate	Facing page
1. Vocal repertoire of Twite. Adult vocalizations: (a) a lengthy flight song (inserted in a White-winged male rambling song); (b) typical flight song pattern (Yel-Blk male in flight display), with introductory flight call and terminating <i>wheets</i> [(a) and (b) are juxtaposed to emphasize similarities in the songs of these two males]; (c) short section of female mobbing illustrating the sequence of the component <i>tew</i> and <i>tooe</i> calls, compared to rambling (d) which the male utters in mobbing contexts; (d) a section of rambling song illustrating three ramble phrases representing two phrase types (see text for detailed description of this complex song); (e) <i>tup-up-up</i> ; (f) <i>keet</i> (1) Irish Twite, (2) Norwegian Twite; (g) <i>wheet</i> call sequence; (h) <i>tooe</i> (1) Scottish Twite, (2) Norwegian Twite; (i) <i>tew</i> . Calls of the young: (j) nestling calls, (1) nestling from Orange nest, (2) nestling from Blue nest; (k) fledgling call, comparable to the adult <i>keet</i> ; (l) <i>tew</i> -like call given by a young in distress. . . . .	8
2. Flight calls of six breeding pairs (males on left), and a group of siblings, progeny of Blue pair, reared in species isolation from the late nestling stage. . . . .	8
3. Breeding range and representative flight calls of two European forms of the Twite, <i>Acanthus f. flavirostris</i> and <i>A. f. pipilans</i> . (a) <i>pipilans</i> calls recorded on Isle of Skye, Scotland; (b) <i>pipilans</i> calls recorded on Achill Is., Ireland; (c) <i>pipilans</i> calls recorded on mainland, Co. Mayo, Ireland; (d) <i>flavirostris</i> calls from Selva, Norway. . . . .	8

Plate		Facing page
4.	M. F. M. Meiklejohn.	115
5.	Cyril Winthrop Mackworth-Praed 1891-1974.	117
6.	Radially fractured eggshell, including eggshell membrane of <i>Trichastoma sepiarium</i> , origin Java. At <i>a</i> inner eggshell membrane, <i>b</i> outer eggshell membrane, <i>c</i> zone of cones and basal caps, <i>d</i> palisade layer, <i>e</i> fragment of upper part of column, and <i>f</i> pore entrance. Scanning electron micrograph; scale bar = 20 µm.	146
7.	Radially fractured eggshell of <i>Trichastoma sepiarium</i> showing the crystalline structure of the palisade layer near the egg's upper surface. Same view as Plate 6, but higher magnification. At <i>a</i> calcite rhombohedral cleavage pattern, <i>b</i> vesicular hole, <i>c</i> crystalline surface layer of vertically orientated crystals, and <i>d</i> pore mouth. Scanning electron micrograph; scale bar = 10 µm.	146
8.	(a) Eggshell membrane of <i>Coturnix coturnix</i> , origin Europe, seen from the inside of the shell. (b) Membrane fibres at the outside of the outer membrane of the eggshell of <i>Surniculus lugubris</i> , origin Java. At <i>p</i> protuberances on the fibre mantle. Scanning electron micrographs; scale bars = 20 µm (a) and 5 µm (b).	146
9.	(a) Calcified eggshell of <i>Surniculus lugubris</i> , origin Java, viewed from the inner side. It shows clearly the spherites forming the basal caps. The egg was obtained from the nest of <i>Trichastoma sepiarium</i> . (b) Single spherite of the eggshell of <i>Surniculus lugubris</i> . Same view as (a), but higher magnification. It shows clearly the spherulite crystals and the attachment of the calcified shell to the membrane fibres (see arrow) above the apex of the basal cap. Scanning electron micrographs; scale bars = 40 µm (a) and 20 µm (b).	146
10.	(a) Surface texture of the eggshell of the Great Reed-Warbler <i>Acrocephalus arundinaceus</i> , origin Europe. It shows the crystalline surface layer with polyangular fields of differently oriented crystals and minute pits of the surface. (b) Surface texture of the eggshell of the Cuckoo <i>Cuculus canorus</i> , origin Europe, showing the rather smooth and compact eggshell surface and pore plaques of granular pore plug material. This type of pore plaque is typical for parasitic Cuculidae. The egg was from the nest of <i>Acrocephalus arundinaceus</i> . Scanning electron micrographs; scale bars = 40 µm.	146
11.	Pore mouth in the eggshell of the Plaintive Cuckoo <i>Cacomantis merulinus</i> , origin Java. The granular pore plaque has been removed by washing and abrasion, but remnants of the original organic filling are still visible around the wall of the pore mouth. The cuckoo egg was obtained from the nest of the Ashy Tailor Bird <i>Orthotomus sepium</i> . Scanning electron micrograph; scale bar = 10 µm.	147
12.	Habitats of Viti Levu. (a) Rain-forest in the Nadarivatau reserve; the large tree is an emergent <i>Agathis vitiensis</i> . (b) Montane forest at 4000 ft on Tomanivi.	152
13.	Habitats of Viti Levu. (a) <i>Talasiga</i> in the Nausori highlands; the trees in the background are <i>Casuarina equisetifolia</i> . (b) Seral coastal forest at Lodon.	153
14.	(Stereopairs, the left-hand one of each being indicated). <i>Prinapus lacki</i> : holotype, right humerus: A palmar; B anconal; C internal; D external; E distal; F proximal; Paratype: G distal; H palmar; I anconal; J external; K internal.	166
15.	(Stereopairs, the left-hand one of each being indicated). <i>Aegialornis gallicus</i> , right humerus: A palmar; B anconal; C internal; D distal; E external; F proximal. <i>Hemiprocne longipennis</i> : G palmar; H anconal; I internal; J distal; K external; L proximal.	167
16.	Sociable Weaver nest utilized for principal study site. The vehicle served as an instrument shelter and hide.	173
17.	(a) Shallow ponds of low productivity in sedge mat areas at Dartmouth Point. King Edward Point is in the background. (b) Tussock-rimmed pond on the north end of Dartmouth Point. This more mature type of pond is rich in aquatic invertebrates.	221
18.	(a) Scanning electron micrograph of the surface of an eggshell of <i>Cuculus lepidus</i> . Host: <i>Phylloscopus trivirgatus</i> . (Same egg as figured in (b) upper row). × 525. (b) Eggs of <i>Cuculus lepidus</i> from Java. Upper row: Left <i>Cuculus</i> egg, right <i>P. trivirgatus</i> eggs. (G. Sunda, Mt Pangrango, 15 October 1940, Bartels collection, RMNH 38928). Lower row: Left <i>Cuculus</i> egg, right <i>Seicercus grammiceps</i> egg. (Ciparaj, Mt Pangrango, 19 May 1941, Bartels collection, RMNH 38930). × 1·0 (c) Scanning electron micrograph of the surface of a <i>Cuculus lepidus</i> eggshell; same egg and view as (a) at higher magnification. × 2000.	276
19.	Scanning electron micrograph of the surface of an eggshell of <i>Cuculus p. poliocephalus</i> . Host: <i>Cettia fortipes</i> . An artificial crack running over the shell is visible. (Shillong, Khasi Hills, Assam, 15 May 1938, BM collection). × 525.	276
20.	Fledgling <i>Cuculus lepidus</i> , which left the nest one day before, fed by <i>Seicercus castaniceps</i> . Fraser's Hill, Malaysia, 30 March 1956.	276
21.	Narrow-band sound spectrographs of six- and five-note calls of <i>Cuculus p. poliocephalus</i> in Japan.	368
22.	Narrow-band sound spectrographs of calls of (a) <i>Cuculus lepidus</i> in Java, (b) <i>C. lepidus</i> in Peninsular Malaysia (note that the first grace note was accidentally excised during preparation of the display), (c) <i>C. s. saturatus</i> in Nepal, (d) <i>C. saturatus horsfieldi</i> in Japan (three different phrases uttered consecutively by a single bird; note the absence of a grace note).	369
23.	F. O. Cave.	390

Plate		Facing page
24.	Professor Dr K. H. Voous.	430
25.	(Top) Two <i>Diomedea melanophris</i> at nest soon after returning to the colony in September. (Bottom) <i>D. chrysostoma</i> in January, brooding its chick.	433
26.	(Top) Part of a colony of <i>Diomedea chrysostoma</i> . The young are well fledged, and some are exercising their wings. (Bottom) <i>D. chrysostoma</i> feeding an advanced fledgling.	434
27.	Sir Julian S. Huxley.	536

# BRITISH ORNITHOLOGISTS' UNION

## OFFICERS AND COUNCIL 1975-76

*President*

SIR HUGH ELLIOTT, Bt, O.B.E., M.A.

*Vice-Presidents*

Mrs B. P. HALL	Elected 1973
STANLEY CRAMP, O.B.E., B.A.	Elected 1974
D. W. SNOW, D.PHIL.	Elected 1975

*Editor*

LORD MEDWAY, PH.D.

*Assisted by* Mrs E. M. NORTHCOTE, B.Sc.

*Secretary*

P. J. S. OLNEY, B.Sc.

*Treasurer*

A. G. S. BRYSON, C.A.

*Council*

THE OFFICERS (*as above*)

O. J. MERNE	Elected 1972
C. M. PERRINS, D.PHIL.	Elected 1972
I. J. FERGUSON-LEES	Elected 1973
C. J. MEAD	Elected 1973
J. P. CROXALL, PH.D.	Elected 1974
PETER HOGG	Elected 1974
M. P. HARRIS, PH.D.	Elected 1975
D. I. M. WALLACE	Elected 1975

*Records Committee*

I. J. FERGUSON-LEES (*Chairman*); J. N. DYMOND; M. D. ENGLAND; R. HUDSON;  
 I. C. T. NISBET; K. PRESTON; R. F. RUTTLEDGE; J. T. R. SHARROCK (*Secretary*);  
 K. WILLIAMSON; D. I. M. WALLACE

*Meetings Committee*

C. J. MEAD (*Chairman*); R. K. MURTON; C. M. PERRINS

*Research Committee*

G. V. T. MATTHEWS (*Chairman*); P. R. EVANS; J. J. M. FLEGG;  
 P. J. S. OLNEY (*Secretary ex-officio*); D. W. SNOW

## PAST OFFICERS

### PRESIDENTS

1859–1867	Col. HENRY MAURICE DRUMMOND-HAY
1867–1896	Lord LILFORD
1896–1913	FREDERICK DU CANE GODMAN, F.R.S.
1913–1918	Col. ROBERT GEORGE WARDLAW-RAMSAY
1918–1921	WILLIAM EAGLE CLARKE, I.S.O., LL.D., F.R.S.E.
1921–1922	HENRY JOHN ELWES, F.R.S.
1923–1928	Lord ROTHSCHILD, D.Sc., F.R.S.
1928–1933	WILLIAM LUTLEY SCLATER, M.A.
1933–1938	HARRY FORBES WITHERBY, M.B.E.
1938–1943	PERCY ROYCROFT LOWE, O.B.E., M.B.
1943–1948	Sir NORMAN B. KINNEAR, C. B.
1948–1955	Sir A. LANDSBOROUGH THOMSON, C.B., O.B.E., D.Sc.
1955–1960	WILLIAM HOMAN THORPE, Sc.D., F.R.S.
1960–1965	REGINALD ERNEST MOREAU, M.A.
1965–1970	Prof. VERO COPNER WYNNE-EDWARDS, D.Sc., M.A., F.R.S., F.R.S.E. F.R.S.C.
1970–1975	GUY MOUNTFORT, O.B.E.

### VICE-PRESIDENTS

1922–23	Lord ROTHSCHILD, D.Sc., F.R.S.	W. L. SCLATER, M.A.
1923–24	A. H. EVANS, Sc.D.	E. G. B. MEADE-WALDO
1924–25	E. J. O. HARTERT, Ph.D.	G. M. MATHEWS, F.R.S.E.
1925–26	F. NICHOLSON	Lt-Col. G. RIPON
1926–27	Col. S. R. CLARKE, C.B.	W. L. SCLATER, M.A.
1927–28	Maj.-Gen. Sir PERCY Z. COX, G.C.M.G., G.C.I.E.	Brig.-Gen. H. R. KELHAM, C.B.
1928–29	Sir FREDERICK J. JACKSON, K.C.M.G., C.B.	F. S. MITCHELL
1929–30	E. BIDWELL	Rear Adm. H. LYNES, C.B., C.M.G.
1930–31	W. A. DURNFORD	Sir John R. BRADFORD, K.C.M.G., C.B., D.Sc., F.R.S.
1931–32	Sir MALCOLM C. C. SETON, K.C.B.	H. F. WITHERBY, M.B.E.
1932–33	F. H. GUILLEMARD, M.A., M.D.	H. L. POPHAM, M.A.
1933–34	A. L. BUTLER	C. J. HOLDSWORTH
1934–36	The Rev. F. C. R. JOURDAIN	P. R. LOWE, O.B.E., M.B.
1936–38	H. E. HOWARD	C. OLDHAM
1938–40	D. SETH-SMITH	N. B. KINNEAR
1940–43	Col. R. MEINERTZHAGEN, D.S.O.	H. WHISTLER
1943–45	W. P. LOWE	D. A. BANNERMAN, M.B.E., Sc.D., F.R.S.E.
1945–47	G. E. LODGE	A. L. THOMSON, C.B., D.Sc.
1947–49	Sir HUGH S. GLADSTONE, M.A., F.R.S.E.	B. W. TUCKER, M.A.
1949–51	Miss E. V. BAXTER, F.R.S.E.	C. W. MACKWORTH-PRAED
1951–53	Lt-Col. J. K. STANFORD, O.B.E., M.C.	W. H. THORPE, Sc.D., F.R.S.
1953–55	A. W. BOYD, M.C.	

1953–56	J. M. HARRISON, D.S.C., M.R.C.S., L.R.C.P.	1955–58	W. H. THORPE, Sc.D., F.R.S.
1954–57	D. L. LACK, Sc.D., F.R.S.	1957–60	Miss E. P. LEACH, M.B.E.
1956–59	H. G. ALEXANDER, M.A.	1959–62	Miss P. BARCLAY-SMITH, M.B.E.
1958–61	E. M. NICHOLSON, C.B.	1961–64	N. F. TICEHURST, M.A., F.R.C.S.
1960–63	Capt. C. R. S. PITMAN, C.B.E., D.S.O., M.C.	1963–66	Sir PHILIP MANSON-BAHR, C.M.G., D.S.O., F.R.C.P.
1962–65	Prof. V. C. WYNNE- EDWARDS, M.A., F.R.S.E., F.R.S.C.	1965–67	The Rev. E. A. ARMSTRONG, M.A.
1964–66	W. B. ALEXANDER, M.A.	1969–71	H. S. SOUTHERN, M.A.
1966–69	C. W. BENSON, O.B.E.	1970–73	J. D. MACDONALD, B.Sc., F.R.S.E.
1967–70	Prof. R. A. HINDE, Sc.D.	1972–75	E. J. HOSKING, F.R.P.S.
1969–72	D. L. LACK, Sc.D., F.R.S.	1972–75	Sir HUGH ELLIOTT, Bt, O.B.E., M.A.
1971–74	B. CAMPBELL, Ph.D.	1972–75	Prof. G. V. T. MATTHEWS, Ph.D.

#### SECRETARIES AND TREASURERS

1858–1864	Prof. A. NEWTON, M.A., F.R.S.	1864–1870	O. SALVIN, M.A., F.R.S.
1870–1882	F. D. GODMAN, F.R.S.	1882–1889	H. E. DRESSER
1889–1897	F. D. GODMAN, F.R.S.	1897–1898	O. SALVIN, M.A., F.R.S.
1898–1901	E. W. OATES	1901–1907	H. SAUNDERS
1907–1913	J. L. BONHOTE, M.A.	1913–1936	E. C. S. BAKER, C.I.E., O.B.E.
1936–1944	C. W. MACKWORTH-PRAED, M.A.	1940–1944	G. C. LOW, M.D., F.R.C.P. <i>(Acting)</i>
1944–45	B. G. HARRISON	1945–51	Miss P. BARCLAY-SMITH

#### SECRETARIES

1951–52	E. BANKS	1952–62	G. MOUNTFORT
1962–67	Sir HUGH ELLIOTT, Bt, O.B.E., M.A.	assisted by C. J. O. HARRISON	1964–66
1967–72	J. F. MONK, D.M.	assisted by I. C. GALBRAITH, M.A.	1966–67

#### TREASURERS

1951–55	C. W. MACKWORTH-PRAED, M.A.	1956–	A. G. S. BRYSON, C.A.
---------	-----------------------------	-------	-----------------------

#### EDITORS

1859–1864	P. L. SCLATER, M.A., F.R.S.	1865–1870	Prof. A. NEWTON, M.A., F.R.S.
1871–1876	O. SALVIN, M.A., F.R.S.	1877–1882	O. SALVIN & P. L. SCLATER
1883–1888	P. L. SCLATER & H. SAUNDERS	1889–1894	P. L. SCLATER
1895–1900	P. L. SCLATER & H. SAUNDERS	1901–1912	P. L. SCLATER & A. H. EVANS, M.A.
1913–1928	W. L. SCLATER, M.A.	1928	W. L. SCLATER & H. C. ROBINSON
1929–1930	W. L. SCLATER, M.A.	1931–1941	C. B. TICEHURST, M.A.
1941–1947	Capt. C. H. B. GRANT		
1947–1960	R. E. MOREAU, M.A.	assisted by D. W. SNOW, D.PHIL.	1952–56
		assisted by J. F. MONK, D.M.	1956–60

1960-1966	J. F. MONK, D.M. <i>assisted by</i> N. P. ASHMOLE <i>assisted by</i> I. NEWTON, D.PHIL.	1960-62 1965-67
1966-1968	The Rev. P. H. T. HARTLEY, M.A. <i>assisted by</i> I. NEWTON, D.PHIL.	1966-67
1968	R. S. BAILEY, D.PHIL. ( <i>Acting</i> )	
1968-1973	D. W. SNOW, D.PHIL. <i>assisted by</i> R. S. BAILEY, D.PHIL. <i>assisted by</i> Mrs B. P. HALL	1968-71 1971-73
1973-1974	Lord MEDWAY, Ph.D. ( <i>Acting</i> ) <i>assisted by</i> Mrs E. M. NORTHCOTE, B.Sc.	1973-

### MEDALLISTS

#### FOUNDERS' GOLD MEDAL

Presented to the four original Members surviving at the Jubilee Celebration  
9 December 1908

F. D. GODMAN	P. S. GODMAN
W. H. HUDLESTON	P. L. SCLATER

#### UNION MEDAL

1912	W. GOODFELLOW, C. H. B. GRANT, G. C. SHORTRIDGE, A. F. R. WOLLASTON
1948	W. P. LOWE
1959	W. B. ALEXANDER, E. A. ARMSTRONG, D. A. BANNERMAN, Miss E. V. BAXTER, P. M. SCOTT
1960	C. W. BENSON
1967	SALIM ALI, P.A.D. HOLLOM, G. MOUNTFORT
1968	J. M. M. FISHER, C.R.S. PITMAN
1969	C. W. MACKWORTH-PRAED
1970	L. H. BROWN
1971	S. MARCHANT, H. N. SOUTHERN, B. STONEHOUSE
1972	D. GOODWIN, N. W. MOORE
1973	Mrs B. P. HALL
1975	K. H. VOOUS

#### GODMAN-SALVIN MEDAL

1922	W. E. CLARKE
1929	E. HARERT
1930	W. L. SCLATER
1936	H. LYNES
1938	H. F. WITHERBY
1946	P. R. LOWE
1951	R. MEINERTZHAGEN
1959	D. L. LACK, Sir A. LANDSBOROUGH THOMSON
1962	E. M. NICHOLSON
1966	R. E. MOREAU
1968	W. H. THORPE
1969	N. TINBERGEN
1971	Sir JULIAN S. HUXLEY

### MEMBERS ELECTED DURING 1975

- Listed below are those whose names were not included in the August 1975 List of new members:
- 1975. AXELL, HERBERT E., M.B.E.; Suffolk Punch Cottage, Bekers Lane, Westleton, Saxmundham, Suffolk, UK
  - 1975. BARRETT, ROBERT T., B.Sc; Marine Biological Station, Boks 2550, Sør Tromsøya, N-9001 Tromsø, Norway
  - 1976. BARTLE, JOHN A., M.Sc.; 37 Sefton Street, Wadestown, Wellington 1, New Zealand
  - 1975. BARTLETT, Dr MICHAEL C., M.A, M.R.C.P; Dielingerstr. 42B, 45 Osnabrück, FGR
  - 1975. BYRKJEDAL, INGVAR; Løbergsalleen 39, N-5032 Minde, Norway
  - 1975. CAPE, J. A. DUNCAN; Box 1, Nandi Hills, Kenya
  - 1975. CHARLES, JOSEPH K., Ph.D; School of Biological Sciences, Universiti Sains Malaysia, Pulau Pinang, Malaysia
  - 1975. CLOSS-PARRY, NORMAN, B.Ed; Bryn Ceris, Carmel Road, Carmel, Holywell CH8 7DD, Clwyd, UK
  - 1975. CORTÉS, JOHN E.; 31 Irish Town, Gibraltar
  - 1975. CRAIG, ADRIAN; Zoology Dept, University of Natal, P.O. Box 375, Pietermaritzburg 3200, South Africa
  - 1975. DIXON, TIMOTHY J.; Flat R1 Philharmonic Residences, University of Liverpool, P.O. Box 147, Liverpool L69 3BX, UK
  - 1976. EVERETT, MICHAEL J.; 3 Gunnings Way, Hemingford Grey, Huntingdon PE18 9EE, Cambridgeshire, UK
  - 1975. FLOWERDAY, PETER, Ph.D; 5 Golden Hind Park, Hythe, Southampton SO4 5BR, UK
  - 1975. FROST, ROY A.; 66 St Lawrence Road, North Winfield, Chesterfield S42 5BR, UK
  - 1975. GALSWORTHY, ANTHONY C., M.A; 1 Kingsthorpe Court, Raymond Road, London SW19 4AE, UK
  - 1976. GIRAUD-AUDINE, MICHEL; Lycée Regnault, Tangier, Morocco
  - 1975. GRAHAME, Maj. IAIN; Daws Hall, Lamarsh, Bures CO8 5EX, Suffolk, UK
  - 1975. HANCOCK, DAVID LAWRENCE, B.Sc; 33 Hawken Drive, St Lucia, Brisbane, Queensland 4067, Australia
  - 1976. HODGKINS, RAYMOND D., M.A; Town and Gown Travel, 40/41 South Parade, Summertown, Oxford OX2 7JP, UK
  - 1975. HUDSON, PETER J., B.Sc; Edward Grey Institute, Zoology Dept, South Parks Road, Oxford OX1 3PS, UK
  - 1975. KEAST, J. ALLEN, Ph.D; Biology Dept, Queen's University, Kingston, Ontario, Canada *Life Member*
  - 1975. KNIGHT, EDWARD L.; Ivy Mill Farm, Ivy Mill Lane, Godstone, Surrey, UK
  - 1975. LOWE, ANDREW R., M.Sc; The Whitlands, Aquaduct Lane, Alvechurch, Birmingham 48, UK
  - 1975. MACDONALD, DAVID W., B.A; Animal Behaviour Research Group, Zoology Dept, South Parks Road, Oxford OX1 3PS, UK
  - 1975. MALCOLM, NEILL B.; 8 Thrushgill Drive, Halton, Lancaster LA2 6NN, UK
  - 1976. MEAD, Mrs U. VERTY; 4 Beaconsfield Road, Tring, Hertfordshire, UK
  - 1976. PINEAU, JEAN; Lycée Regnault, Tangier, Morocco
  - 1975. REED, TIMOTHY M.; Pendley Beeches Lodge, London Road, Tring HP23 5RB, Hertfordshire, UK
  - 1975. SCHOLEY, JOHN D.; 48 Portree Court, Darnhill, Heywood OL10 3SG, Lancashire, UK
  - 1975. SUTHERLAND, WILLIAM J.; 4 Antrim Avenue, Sheffield S10 2DZ, UK
  - 1975. WALKER, GRAHAM J.; Sandlands Cottage, Thorganby, York, UK
  - 1975. WALTON, Mrs CAROLYN, B.Sc; D.S. 103 Bujumbura, Burundi